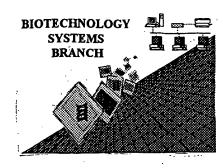
5040 X

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: $\frac{10/0/8,445}{5}$ Source: $\frac{90/0/8,445}{1/4/2002}$

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

- 1. EFS-Bio (httm, EFS Submission User Manual ePAVE)
- 2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
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 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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RAW SEQUENCE LISTING DATE: 01/14/2002 PATENT APPLICATION: US/10/018,445 TIME: 07:44:23

Input Set : A:\Sequence

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m145
       4 <110> APPLICANT: C. Frank Bennett
               Brett P. Monia
       6
               Lex M. Cowsert
               ISIS PHARMACEUTICALS, INC.
       9 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF INTEGRIN BETA 3 EXPRESSION
      11 <130> FILE REFERENCE: RTSP-0047
     13 <140> CURRENT APPLICATION NUMBER: US/10/018,445
     13 <141> CURRENT FILING DATE: 2001-12-13
                                                                        Does Not Comply
     13 <150> PRIOR APPLICATION NUMBER: US 09/344,520
                                                                   Corrected Diskette Needed
     14 <151> PRIOR FILING DATE: 1999-06-25
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     30
                                    1
     32
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                                                                                  98
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           Trp Val Thr Val Leu Ala Leu Gly Ala Leu Ala Gly Val Gly
     34
                             15
                                                  20
     36
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                                                                                 146
     37
           Gly Pro Asn Ile Cys Thr Thr Arg Gly Val Ser Ser Cys Gln Gln Cys
     38
                                             35
     40
           ctg gct gtg agc ccc atg tgt gcc tgg tgc tct gat gag gcc ctg cct
                                                                                 194
           Leu Ala Val Ser Pro Met Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro
     41
     42
                                         50
     44
           ctg ggc tca cct cgc tgt gac ctg aag gag aat ctg ctg aag gat aac
                                                                                 242
     45
           Leu Gly Ser Pro Arg Cys Asp Leu Lys Glu Asn Leu Leu Lys Asp Asn
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     48
           tgt gcc cca gaa tcc atc gag ttc cca gtg agt gag gcc cga gta cta
                                                                                 290
     49
           Cys Ala Pro Glu Ser Ile Glu Phe Pro Val Ser Glu Ala Arg Val Leu
     50
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     52
           gag gac agg ccc ctc agc gac aag ggc tct gga gac agc tcc cag gtc
                                                                                 338
     53
           Glu Asp Arg Pro Leu Ser Asp Lys Gly Ser Gly Asp Ser Ser Gln Val
     54
                            95
                                                100
     56
           act caa gtc agt ccc cag agg att gca ctc cgg ctc cgg cca gat gat
                                                                                 386
           Thr Gln Val Ser Pro Gln Arg Ile Ala Leu Arg Leu Arg Pro Asp Asp
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                                                                         E fix amend and gtg 434 numbering
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           gac atc tac tag atg gac ctg tct tac tcc atg aag gat gat ctg
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/018,445

DATE: 01/14/2002
TIME: 07:44:23

Input Set : A:\Sequence

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68	Lgg	ayc	Ile	Cln	Acn	Tou	99°	Thr	Luc	Len	Δla	Thr	Gln	Met	Ara	Lvs	
69	_	ser	TTE	GIII	ASII	160	СТУ	1111	шуз	пси	165	1111	01	1100	5	170	
70	155							~~~	++-	~~~		+++	ata	aac	aad		578
72	ctc	acc	agt	aac	ctg	cgg	dll Tla	ggc	Dho	999	y Ca	Dho	y Ly Val	Acn	Tue	Pro	3, 3
73	Leu	Thr	Ser	Asn		Arg	TTE	GTA	Pne		нта	PHE	Vai	тэр	185	110	
74					175					180				~~~		000	626
76	gtg	tca	cca	tac	atg	tat	atc	tcc	cca	cca	gag	310	CLC	gaa	Aan	Dro	020
77	Val	Ser	Pro		Met	Tyr	He	ser		Pro	GIU	Ald	ьеи	GIU	ASII	PIO	
78				190					195					200		020	674
80	tgc	tat	gat	atg	aag	acc	acc	tgc	ttg	ccc	atg	ttt	ggc	tac	aaa	CaC	0/4
81	Cys	Tyr	Asp	Met	Lys	Thr	Thr		Leu	Pro	Met	Pne		туг	гаг	HIS	
82			205					210					215				700
84	gtg	ctg	acg	cta	act	gac	cag	gtg	acc	cgc	ttc	aat	gag	gaa	gtg	aag	722
85	Val	Leu	Thr	Leu	Thr	Asp	Gln	Val	Thr	Arg	Phe	Asn	Glu	GIU	vaı	гàг	
86		220					225					230					770
88	aag	cag	agt	gtg	tca	cgg	aac	cga	gat	gcc	cca	gag	ggt	ggc	ttt	gat	770
89	Lys	Gln	Ser	Val	Ser	Arg	Asn	Arg	Asp	Ala		Glu	Gly	GТУ	Phe	Asp	
90	235					240					245					250	0.1.0
92	gcc	atc	atg	cag	gct	aca	gtc	tgt	gat	gaa	aag	att	ggc	tgg	agg	aat	818
93	Ala	Ile	Met	Gln	Ala	Thr	Val	Cys	Asp	Glu	Lys	Ile	Gly	${\tt Trp}$		Asn	
94					255					260					265		
96	gat	gca	tcc	cac	ttg	ctg	gtg	ttt	acc	act	gat	gcc	aag	act	cat	ata	866
97	Asp	Āla	Ser	His	Leu	Leu	Val	Phe	Thr	Thr	Asp	Ala	Lys	Thr	His	Ile	
98	_			270					275					280			
100	gca	a tt	g ga	c gg	a ag	g ct	g gca	a ggo	c at	t gt	c ca	g cc	t aa	t ga	c gg	g cag	914
101	Ala	a Le	u Asj	p Gl	y Ar	g Le	u Ala	a Gl	y Ile	e Va	1 Gl	n Pr	o Asi	n As	p Gl	y Gln	
102			28	5				290)				29	5			
104	tg.	t ca	t gt	t gg	t ag	t ga	c aat	t cat	t ta	c tc	t gc	c tc	c ac	t ac	c at	g gat	962
105	Cy	s Hi	s Va	1 Gl	y Se	r As	p Ası	n Hi:	s Ту:	r Se	r Al	a Se	r Th	r Th	r Me	t Asp	
106	_	30					30					31					_
108	ta	t cc	c tc	t tt	g gg	g ct	g ate	g ac	t ga	g aa	g ct	a tc	c ca	g aa	a aa	c atc	1010
109	Ty	r Pr	o Se	r Le	u Gl	у Le	u Me	t Thi	r Gl	u Ly	s Le	u Se	r Gl	n Ly	s As	n Ile	
110	31	5				32	0				32	5				330	
112	aa	t tt	g at	c tt	t gc	a gt	g ac	t gaa	a aa	t gt	a gt	c aa	t ct	c ta	t ca	g aac	1058
113	As	n Le	u Il	e Ph	e Al	a Va	l Th	r Gl	u As	n Va	l Va	l As	n Le	u Ty	r Gl	n Asn	
114					33					34					34		
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117	Ty	r Se	r Ğl	u Le	u Il	e Pr	o G1	y Th	r Th	r Va	1 Gl	y Va	l Le	u Se	r Me	t Asp	
118				35	0				35	5				36	0		
120	tc	c aq	c aa	t qt	c ct	с са	g ct	c at	t gt	t ga	t go	t ta	t gg	g aa	a at	c cgt	1154
121	Se	r Se	r As	n Va	l Le	u Gl	n Le	u Il	e Va	l As	p Al	а Ту	r Gl	у Lу	s Il	e Arg	
122			36	5				37	0				37	5			
124	tc	t aa	a qt	c qa	g ct	g ga	a gt	g cg	t ga	c ct	c cc	t ga	a ga	g tt	g tc	t cta	1202
125	Se	r Lv	s Va	ı Ğl	u Le	u Ğ1	u Va	l Ar	g Ās	p Le	u Pr	o Gl	u Gl	u Le	u Se	r Leu	
126		38	0				38	5				39	0				
128	tc	c tt	c aa	t qc	c ac	c tq	c ct	c aa	c aa	t ga	g gt	.c at	c cc	t gg	c ct	c aag	1250
129	Se	r Ph	e As	n Ál	a Th	r Cy	s Le	u As	n As	n Gl	u Va	1 11	e Pr	o Gl	у Le	u Lys	
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RAW SEQUENCE LISTING DATE: 01/14/2002 PATENT APPLICATION: US/10/018,445 TIME: 07:44:23

Input Set : $A:\Sequence$

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132								gga									1298
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134					415					420					425		
136								cag									1346
137	Ala	Lys	Val	Arg	Gly	Cys	Pro	Gln	Glu	Lys	Glu	Lys	Ser	Phe	Thr	Ile	
138				430					435					440			
140	aag	ccc	gtg	ggc	ttc	aag	gac	agc	ctg	atc	gtc	cag	gtc	acc	ttt	gat	1394
141	Lys	Pro	Val	Gly	Phe	Lys	Asp	Ser	Leu	Ile	Va1	Gln	Val	Thr	Phe	Asp	
142			445					450					455				
144	tgt	gac	tgt	gcc	tgc	cag	gcc	caa	gct	gaa	cct	aat	agc	cat	cqc	tgc	1442
145	Cys	Asp	Cys	Ala	Cys	Gln	Ala	Gln	Ala	Glu	Pro	Asn	Ser	His	Arg	Cys	
146	_	460	_		_		465					470			_	-	
148	aac	aat	qqc	aat	aaa	acc	ttt	gag	tgt	qqq	qta	tac	cqt	tqt	aaa	cct	1490
149								Ğlu									
150	475		-		_	480			-	_	485		,	- 4		490	
152	aac	taa	cta	qqa	tcc		tat	gag	tac	tca		σασ	gac	tat	cac	•	1538
153								Glu									
154	1			1	495		-1-		-1-	500				-1-	505		
156	tee	caσ	caσ	gac		tac	aσc	ccc	сαа		aat	caσ	ccc	atc		agc	1586
157						_	_	Pro	_			_		_	_	_	1000
158	001	01		510	0	010	001	110	515	Olu	011	O	110	520	0,0	001	
160	саσ	caa	aac		tac	ctc	tat	ggt		tat	atc	tac	cac		aαt	gac	1634
161								Gly									1054
162	0.111	2119	525	Olu	CID	пси	Cyb	530	OIII	Cys	VUI	Cys	535	oci	DCI	пор	
164	+++	aac		atc	aca	aac	ааσ	tac	tac	πaπ	tat	aac		ttc	tac	tat	1682
165					_		_	Tyr	_		_	-	-			_	1002
166	rne	540	шуз	116	1111	GLY	545	тут	Cys	GIU	Суз	550	пор	FIIC	per	Cys	
168	atc		tac	aan	aaa	ααα		tgc	toa	σσσ	cat		cad	tac	agg	tat	1730
169								Cys									1/30
170	555	лгу	тут	цуз	СТУ	560	Hec	Cys	261	СТУ	565	СТУ	GIII	Cys	261	570	
172		aaa	taa	ata	+ a+		taa	gac	taa	200		+20	+20	taa	220		1778
173								Asp									1//6
174	GTĀ	ASP	Cys	ьец	575	ASP	ser	ASP	тъ	580	СТА	тут	тут	Cys	585	Cys	
174	200	200	aat	a a t		300	+ ~ ~	atg	+ 00		22+	aaa	a+~	ata		200	1826
177		_	_		-		_	-		_			_	_	_	_	1020
178	TILL	1111	ALG	590	ASP	1111	Cys	Met	595	ser	ASII	GIY	ьеu		Cys	ser	
	~~~		~~~		<b></b>									600			1074
180								ggc									1874
181	GIY							Gly				_			Pro	GIY	
182								610									4000
184								aag									1922
185	ser		GLY	Asp	Thr	Cys		Lys	Cys	Pro	Thr		Pro	Asp	Ala	Cys	
186		620					625					630					40-0
188								gag									1970
189		Phe	Lys	Lys	GLu	_	Val	Glu	Cys	Lys	-	Phe	Asp	Arg	G⊥u		
190	635					640					645					650	
192								aac									2018
193	Tyr	Met	Thr	Glu		Thr	Cys	Asn	Arg		Cys	Arg	Asp	Glu		Glu	
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RAW SEQUENCE LISTING DATE: 01/14/2002 PATENT APPLICATION: US/10/018,445 TIME: 07:44:23

Input Set : A:\Sequence

Output Set: N:\CRF3\01142002\J018445.raw

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198				670					675					680			
200		aag															2114
201	-	Lys		Glu	Asp	Asp	Cys		Val	Arg	Phe	Gln		Tyr	Glu	Asp	
202			685					690					695				
204		. agt															2162
205	Ser	Ser	Gly	Lys	Ser	Ile		Tyr	Val	Val	Glu		Pro	Glu	Cys	Pro	
206		700					705					710					
208	aag	ggc	cct	gac	atc	ctg	gtg	gtc	ctg	ctc	tca	gtg	atg	ggg	gcc	att	2210
209		Gly	Pro	Asp	Пе		Val	Val	Leu	Leu		Val	Met	Gly	Ala		
210 212	715					720					725					730	0050
213		ctc															2258
$\begin{array}{c} 213 \\ 214 \end{array}$	ьeu	Leu	тте	СТА	735	Ата	Ата	ьeu	Leu	740	Trp	гĀ2	Leu	Leu		Thr	
214	ato	cac	αac	CGS		ma a	++a	aat	222		~~~	<i>α</i>	<i>a</i>	000	745	2022	2306
217		His															2300
218	110	1113	изъ	750	пуз	GIU	rne	Ата	755	rne	GIU	GIU	GIU	760	нта	Alg	
220	gca	aaa	taa		aca	acc	aac	aac		cta	tat	222	aaa		aca	tot	2354
221	Ala	Lys	Trp	Asp	Thr	Ala	Asn	Agn	Pro	Len	Tyr	Lvs	Glu	Δla	Thr	Ser	2334
222		-1-	765				11011	770	110	Deu	-1-	<i>L</i> ₁ <i>S</i>	775	mu	1111	JCI	
224	acc	ttc	acc	aat	atc	acσ	tac		aac	act.	t.aa	t.gat		raσ i	tcato	ctcag	2407
225	Thr	Phe	Thr	Asn	Ile	Thr	Tyr	Arg	Gly	Thr		٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2107
226		780					785	_	-								
228	atc	attai	tca g	jccto	gtgcc	a go	gatte	gcagg	agt	ccct	gcc	atca	itgtt	ta d	cagag	gacag	2467
230																tatgt	2527
232	gga	agtgi	tgg g	gtctg	gtgtg	rt gt	gtat	gtgg	ggg	tctg	ıtgt	gttt	atgt	gt (	gtgtg	rttgtg	2587
234	tgt	ggga	gtg t	gtaa	ittta	a aa	ıttgt	gatg	tgt	cctg	jata	agct	gago	etc o	cttag	ccttt	2647
236																gagetg	2707
238																tccct	2767
240																ggctc	2827
242																iggaac	2887
244																gccga	2947
246																ctcaa	3007
248	ccc	agcta	itg g	rttct	ctcg	c aa	ggga	agto	ctt	gcaa	gct	aatt	cttt	ga c	ectgt	tggga	3067
250	gtg	aggat	igt c	etggg	ccac	t ca	gggg	tcat	tca	tggc	ctg	gggg	atgt	ac c	cagca	tctcc	3127
252		ttcat			acco	t to	agat	ttgc	ctt	attg	gca	gcg				3170	
	<210> < < 211> :																
	<211> <212> '																
	<213>				ifia	ria l	Sami	ongo					<b>-</b>	غد	,	/	
	(220)			ALU		<u>u</u>	<u> </u>	CIICE			$\overline{}$	11	nse	$\mathcal{K}$	ス	(n)	narda

W--> 260 (220) FEATURE: 260 <223> OTHER INFORMATION: PCR Primer

262 <400> SEQUENCE: 2

263 tttaccactg atgccaagac tca

266 <210> SEQ ID NO: 3

267 <211> LENGTH: 21

268 <212> TYPE: DNA

269 <213> ORGANISM: Artificial Sequence

nuneve idestifier wherever 23 22217, C2227, O C2237 is slown (global ever)

RAW SEQUENCE LISTING

DATE: 01/14/2002 TIME: 07:44:23 PATENT APPLICATION: US/10/018,445

Input Set : A:\Sequence

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     277 <210> SEQ ID NO: 4
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W--> 337 (<220>)FEATURE:
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**VERIFICATION SUMMARY** 

DATE: 01/14/2002

PATENT APPLICATION: US/10/018,445

TIME: 07:44:24

Input Set : A:\Sequence

Output Set: N:\CRF3\01142002\J018445.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:58 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/018,445

DATE: 01/14/2002 TIME: 07:44:24

Input Set : A:\Sequence

Output Set: N:\CRF3\01142002\J018445.raw

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